1 2	(BSP June 26, 2000) Masonry Materials
3	Concrete Masonry Units
4	Concrete masonry units (CMU) shall conform to ASTM C 90, Grade N
	Type 1, with a density between 100 and 115 pounds per cubic foot.
5	· · · · · · · · · · · · · · · · · · ·
6	Shrinkage shall not exceed 0.065 percent.
7	All CMI i's shall contain a water repallant admivture in accordance with the
8	All CMU's shall contain a water repellent admixture in accordance with the
9	admixture manufacturer's recommendations. The water repellent admixture
0	shall be "Dry-Block System" by W. R. Grace Company, or an approved
1	equal.
2	All CMII's shall be standard manufactured units with naminal face
3	All CMU's shall be standard manufactured units with nominal face
4	dimensions of eight inches high and 1'-4" long. The CMU block thickness
5	shall be eight inches, unless otherwise shown in the Plans. Special shapes
6	shall be provided to complete the work as shown in the Plans.
7	CMI I surface texture and color shall be as follows:
8	CMU surface texture and color shall be as follows:
9	*** <b>ሶ</b> ሶላ <b>ሶ</b> ሶ***
20	***\$\$1\$\$***
21	All CMI to shall be of writered texture and color obtained from one course
22	All CMU's shall be of uniform texture and color, obtained from one source.
23	The Contractor shall submit four samples of each type of CMU block
24	specified for use on the project to the Engineer for approval.
25	The Contractor shall submit a contitionts of compliance from the CMI
26	The Contractor shall submit a certificate of compliance from the CMU
27	manufacturer to the Engineer, in accordance with Section 1-06.3, certifying
28	compliance with the specified requirements. The submittal shall include
29	test results as required from tests conducted within the previous twelve
30	months.
31	CMU Grout
32	
3	CMU grout shall conform to ASTM C 476, with a six sack minimum mix and
34 35	3/8 inch aggregate. The CMU grout shall have a minimum 28 day
	compressive strength of 1,800 psi and a slump of ten inches.
36 27	Martar
37	Mortar  Portland coment shall be Type 1 conforming to Section 0.01.2(1)
88	Portland cement shall be Type 1 conforming to Section 9-01.2(1).
9	Macanny coment shall conform to ASTM C 01
0	Masonry cement shall conform to ASTM C 91.
1	Aggregate shall conform to AACHTO M 45
2	Aggregate shall conform to AASHTO M 45.
3	Hudratad lime shall conform to ACTM C 207
4	Hydrated lime shall conform to ASTM C 207.
5	Water shall conform to Section 9-25.1.
ŀ6 ŀ7	vvaler Shall conton to Section 3-23.1.
.7 -8	The mortar shall conform to ASTM C 270, Type S, and shall be mixed in
	accordance with one of the following mix proportions:

Alt. 2 1/2 part

Alt. 1 1 part

50 51 52

Portland Cement

1 2	Masonry Cement Hydrated Lime	- 1/4 to 1/2 part	1 part	
3	Aggregate	1/4 to 1/2 part 4-1/2 parts	- 4-1/2 parts	
4	The proportions of down	lacas aggregate for	hath alternative mixes	
5 6		The proportions of damp, loose aggregate for both alternative mixes shall be not less than 2-1/4 times nor greater than 3 times the sum of		
7	the volumes of cement and lime used.			
8	the verames of sementary	a milo dood.		
9	The minimum compressive strength at 28 days shall be 1,800 psi.			
10				
11	The mortar mixture shall include a water repellent integral admixture, mixed			
12	in accordance with the admixture manufacturer's recommendations. The			
13 14	water repellent integral admixture shall be "Dry-Block System" by W. R.			
15	Grace Company, or an approv	red equal.		
16	To ensure uniform color, text	ure, and quality, all r	nortar mix components	
17	To ensure uniform color, texture, and quality, all mortar mix components shall be obtained from one manufacturer for each component, and from			
18	one source and producer for each aggregate.			
19	·			
20	Parge Coating			
21	The parge coating applied to the top of the assembled CMU wall shall be			
22	one of the following waterproo	f cement base coating	S:	
23 24	1. Thoroseal, manufactu	red by Thoro		
2 <del>4</del> 25	2. Fabriseal, manufactu	•		
26	3. Tamoseal, manufactured by Tamms.			
-		,		